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Ho, Ho, Ho -- Christmas Comes Early! WTEN Offers the Club a VHF Repeater Site

Channel 10, WTEN, has signed an agreement with EGARA to allow its main VHF repeater on 147.270 MHz to be located at the station's old analog transmitter site on top of the Helderberg Mountains overlooking the Greater Capital District. The original repeater site went dark on October 30th after Charter Communications sold the tower in Loudonville where it had been installed.

"The club was able to finalize its agreement with Channel 10 the day before Thanksgiving," said EGARA President Bryan Jackson, W2RBJ. "It really was an early Christmas present and we look forward to our partnership with the station, as they have been great to work with."



The former WTEN analog transmitter site where EGARA's repeater will be located.

Jackson first reached out to the station over the summer when it became clear that the existing site for the repeater was in jeopardy. With the loss of the old site, he explained the situation and WTEN Chief Engineer Steve Pingelski expedited the club's request with corporate officials at Nexstar, which owns the station and the Helderberg site.

"Steve has been excellent to work with and has been a great advocate for us," Jackson continued. "And Nexstar has been very responsive in clearing the way for us to get us back on the air."

- continued on page 2 -

In This Issue

Page 1 - WTEN offers repeater site
Page 1 - Brown's for the Holiday Party
Page 3 - On the Beam News & Notes
Page 4 - November Meeting Minutes
Page 5 - Field Day Results
Page 6 - Christmas Greetings!
Page 7 - Local Skywarn Training Set
Page 8 - Getting Started with POTA
Page 11 - Shop Hamfest Vendors for Gifts
Page 12 - Calendar / Classifieds / Pro Tip

Annual Holiday Party Set for December 12th

EGARA members will celebrate the Christmas season with dinner at Brown's Brewing Company in Troy starting at 6 pm on Thursday, December 12th. The club has reserved the private Taproom for the event.



Those attending the party will find a wide selection of entrees available on the Taproom menu, with prices starting at around \$15. A full listing of Brown's offerings can be found at: <https://www.brownsbrewing.com/troy-taproom/#menu>. Santa will also be on hand to raffle off gifts!

Brown's is located at 417 River Street in Troy and a large parking lot is conveniently located adjacent to the building.

Club members planning to attend should RSVP to W2RBJ@outlook.com no later than December 9th.

Next Membership Meeting - Holiday Party - December 12, 2024 - 6 pm

WTEN Offers New Repeater Site... (continued from page 1)

As part of its agreement with the station, EGARA will help maintain and clean the building and do minor repair work. The club also plans to install an Internet hotspot at the site and will allow the station to share in its use to monitor the aviation obstruction lights that are on the station's former analog tower adjacent to the building. In addition, the club plans to install security cameras at the building, allowing online monitoring of the site. In return, the station will provide use of the building at no charge and cover utility costs. As a non-profit 501c3 organization, EGARA also offers Nexstar a tax deduction for the full fair market rental value of the facility.

In preparation for the new installation, the club will be using a high-end Motorola repeater which was acquired as a donation by member Pete Sochocki, NY2V. The unit is designed for a 100% duty cycle at 100 watts, ensuring robust performance. Also on hand is the required duplexer, which isolates the repeater transmit and receive frequencies from each other.

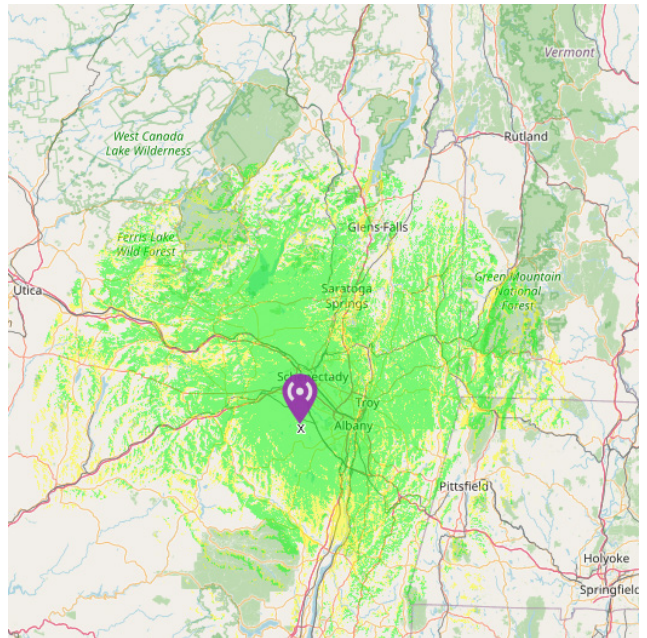
Bob Isby, K2RHI, who owns the tower maintenance company Algonquin Communications, has offered to supply a heavy duty 4-bay dipole VHF repeater antenna for half the current retail price. In addition, Bob has offered to help install the repeater and provide coax feedline if needed. He previously installed the club's 224.800 MHz repeater at Hudson Valley Community college and repaired the antenna used for the 145.110 VHF repeater that is co-located there.

"Bob has always been there for our club and his expertise is a great resource for us," President Jackson said. "As soon as he found out we had secured a new site for the 147.270 machine, he was on the phone to us asking how he could help. He really exemplifies what Amateur Radio is all about."

Other items that will need to be acquired include a controller for the repeater and the Internet hotspot. The club already has a computer and router available to support the repeater's operation.

The former WTEN analog site is located on the Helderberg Mountains in the Town of New Scotland and provides an elevation of 1,558 feet. A plot of the repeater's coverage area (shown at right) indicates that the Greater Capital District should be well served, including good service north to Glens Falls, west into the Johnstown and Gloversville areas, and east as far as the Vermont and Massachusetts borders.

A date for the installation has yet to be set. The first step will be to make a site visit to assess what needs to be done and what materials will be required. Once that has been completed and all of the necessary equipment is in hand, the club will schedule a work day to install the antenna, repeater and support equipment. It is likely a work day will be scheduled prior to the install to do some maintenance on the building, including repair of the main entry door.



Original 147.270 Repeater Earns a Well Deserved Retirement

The club's original VHF repeater was dismantled and removed in early November after Charter Communications closed the site where it was installed in Loudonville.

Club members Tom Scorsone, KC2FCP, Steve Vansickle, WB2HPR, and Walt Snyder, N2WJR, removed the equipment which had reliably served the club for some 25 years. In addition, thanks to its EchoLink capabilities, the repeater regularly hosted Amateur operators from all over the world.

The photos at the right show the repeater prior to its dismantling and Walt standing next to the equipment rack that housed the equipment after it was placed into storage.



On the Beam News & Notes

Trump's FCC Pick Seeks to Bring Partisan Agenda to Independent Agency

President-elect Donald Trump has picked Brendan Carr, a senior Republican commissioner at the FCC, to chair the agency.

Carr says his No. 1 priority will be to address Republican claims that social media and mainstream outlets too often align with liberal interests and suppress conservative ones. In that vein, Mr. Carr recently called on four Big Tech giants in a letter to detail their use of NewsGuard, which works to sideline some non-legacy media by labeling their news reports "misinformation." He is threatening the platforms with revocation of their federally granted immunity against content-based lawsuits.

NewsGuard is an American company that gives clients what it calls "reliability ratings and scores" for news and information websites. Scores range from zero to 100 based on nine "apolitical journalistic criteria" that analyze credibility and transparency.

He said he also plans to take a "very hard look" at a deal that gives 200 radio stations to a group backed by George Soros, a liberal mega-donor, while signaling more even-handed treatment for billionaire Elon Musk, the entrepreneur who heavily backed Mr. Trump and is advising him on the transition.

The FCC is an independent agency subject to oversight from Congress. It has a five-member commission with a 3-2 Democratic majority, though that will change next year when Mr. Trump gets to appoint a new member. Some Trump critics fear the president-elect will attempt to increase his sway over media outlets that he perceives as being unfriendly to him.

"I want to make sure that I understand 100% President Trump's agenda," Mr. Carr said. "After all, when it comes to his administration, the American people voted for him and voted for his agenda."

Critics of Carr predict the FCC may find itself embroiled in First Amendment lawsuits if some of his plans are implemented.

Fight Continues to Keep AM Radios in Vehicles

The head of government relations at the National Association of Broadcasters says the AM for Every Vehicle Act remains "very much in the mix" during the lame-duck period in Washington.

The NAB's Shawn Donilon said the legislation still has momentum, even though this session of Congress is nearing an end.

The bill would mandate AM capability in new vehicles made and sold in the United States, as well as vehicles manufactured abroad that are sold in the U.S.

He predicted the nature of work done during the lame-duck session will be shaped by who remains in leadership as well as who will be in leadership in the next Congress. "That is a very critical contour as to how they wrap up end of Congress business, or if they simply kick the can down the road and punt things down the road to the next Congress."

With the GOP's victories in November, Republicans will control the White House and both chambers of Congress. Donilon said there are "fierce debates" among GOP members about how to handle the last few weeks of session. "President-elect Trump also has a voice in that."

He said the bill continues to meet resistance from automakers and other technology industries. "However, we've had over 700,000 AM listeners contact their members of Congress about the importance of AM radio." The auto industry has said it would cost car makers billions of dollars to keep AM radio in electric and gas combustion vehicles and would stifle new technology innovations. But Donilon said there are options to get the AM bill passed in lame-duck, such as tying it to another bill, for instance.

"An appropriation vehicle is one. A supplemental appropriations package dealing with some of these recent disasters is another," he said. Those are the main options at this point."

Donilon added that AM radio proved its value during the recent Hurricanes that crippled the South, providing invaluable information to those affected by the storms -- and cementing bi-partisan support for the AM radio legislation among some 200 federal lawmakers.

EGARA November Meeting Minutes

- The meeting was called to order at 7:00 PM on Wednesday, November 13th at the Rensselaer County Search and Rescue Building (RCSAR).
- Introductions were made by all 12 members in attendance, as well as two guests present.
- President Bryan Jackson, W2RBJ made his report:
 1. He noted that a new VHF repeater was obtained from Onondaga County through member Pete Sochocki, NY2V. It will replace the old 147.270 machine which was removed from its former location.
 2. Jackson also noted that a lease with Channel 10 (WTEN) was being pursued to potentially use their tower location on the Helderbergs for the new repeater. He said inquiries were also being made about obtaining space for the repeater on Corning Tower, and the Siena College (formerly NYSPD) tower in Loudonville (see story on page 1).
 3. It was announced that the 2024 EGARAs Christmas Party will be at Brown's Taproom in Troy at 6:30 PM on Thursday, December 12th. Meal options include the entire menu and separate checks are available. The taproom is upstairs from Brown's Brewery, is accessible by stairs only, and has generous parking nearby in a public parking lot next to the Green Island Bridge (see story on page 2).
- Old Business: There was discussion regarding the club obtaining a storage shed for EGARAs and RCSAR use. President Jackson suggested an 8x8 shed, and a discussion was had about where to put the shed (behind the building), and about presenting the proposal to RCSAR. Jim Pendolino, KC2HRO stated that he would pitch the idea to the RCSAR Board at the December RCSAR meeting.
- New Business: No New Business was discussed.
- Treasurer's Report: Peter Brickman, KD2YLG noted that there was \$5,293.47 in the checking account. Brickman also noted that \$10 was obtained from the raffle and that one member application had been received in November.
- The business portion of the meeting concluded at 7:30, and was followed by Fred Halley, W2EMS hosting a presentation on the amateur Radio Emergency Services (ARES) for the club. The presentation included a general overview of updates to the service and information on how to get involved with ARES if people were interested.
- Refreshments were served, including pizza and beverages
- The meeting ended at approximately 8:30 pm

2024 ARRL Field Day Results Published

Club Members Earned 662 Points Operating Home Stations

Results have published, and the numbers are in. They paint a picture of a very active 2024 ARRL Field Day with nearly 1.3 million contacts were reported during the 24-hour event. That is up from 2023's 1.25 million contacts. That's likely indicative of the continued rise of Solar Cycle 25 leading up to the event, but more people also participated this year.

Four EGARA members participated in this year's Field Day, with all operating from their home stations. Their combined effort earned the club 662 points, with the individual totals listed below:



Operator	Call sign	Total Contacts	Points Earned
Walt Snyder	N2WJR	72	194
Jim Pendolino	KC2HRO	72	202
Bob Stanley	W2RBS	30	148
Matt Saplin	W2SAP	17	118

Entries were received from all 85 ARRL and Radio Amateurs of Canada (RAC) sections, as well as from 27 different countries from outside the US and Canada. "It is encouraging to see a rise in participation year to year," said ARRL Contest Program Manager Paul Bourque, N1SFE. "ARRL Field Day is amateur radio's premier event, and the hams turned out for it."

Results are available now on the ARRL Field Day website at <https://field-day.arrl.org/fdresults.php>.

EGARA decided to use home stations for Field Day after it appeared there would not be enough members available to set up and operate a club station at the Search and Rescue building. The club is now considering operating a station for Winter Field Day on January 25th & 26th and will explore member's interest at its membership meeting on Wednesday, January 8th (see story below).

Winter Field Day Set for January 25 - 26



Winter Field Day is an exciting annual event for Amateur Radio enthusiasts, taking place on the last full weekend of January. It offers a unique opportunity for hams to set up field operations in remote locations, enabling them to connect with other participants worldwide. Operators may choose to participate solo or participate in a club station.

Winter Field Day is organized by the Winter Field Day Association. The association strongly believes that ham radio operators should practice portable emergency communications in winter environments. This is because freezing temperatures, snow, ice, and other hazards pose unique operational concerns.

The Winter Field Day event aims to help participants improve their preparedness for disasters and enhance their operational abilities in adverse conditions. Amateur Radio operators have the freedom to use frequencies on the HF, VHF, or UHF bands while employing voice, CW, and digital transmissions. The event designates specific objectives to encourage a diverse range of activities, including the use of non-commercial power sources, the deployment of multiple antennas, establishing satellite contacts, and more. EGARA will operate a club station if enough members wish to participate.

EGARA Wishes You CHRISTMAS GREETINGS



LOCAL SKYWARN TRAINING CLASSES SET

Forecasters from the National Weather Service (NWS) in Albany, NY conduct storm spotter training sessions each year to help prepare spotters for the upcoming severe and winter weather seasons. These sessions are free and open to anyone who is interested in learning about hazardous weather and the role of a spotter. There are some eligibility requirements to be a spotter: You must be able to observe the weather, be 16 years or older and need access to a phone to call in reports, access to the Internet to submit reports via email or social media, or be able to report information through the Amateur Radio Network.

The live training sessions are approximately 1.5 to 2 hours in length, and once you complete the training, participants will be an official SKYWARN™ spotter and given a spotter certificate. This goal of the training is to train spotters to assist local officials and the NWS with early detection of hazardous weather, and provide ground truth during severe and winter weather events. The learning objectives of our live and online webinar training sessions are:



- Understand the how the NWS Integrated Warning System works and how the spotter fits into this system
- Identify the ingredients needed for organized thunderstorms
- Recognize the visual and environmental clues suggestive of severe weather
- Distinguish between legitimate clues and non-significant features associated with severe weather
- Learn about the different types of winter weather and how to measure each
- Learn how to stay safe when storm spotting
- Learn proper storm reporting procedures

Approximately one-third of NWS-Albany's spotters also are Amateur Radio operators. This dual role can be helpful, especially during a major storm such as a hurricane, when phone and power lines are downed and Amateur Radio may become the primary means of communications.

SKYWARN™ volunteers also help the NWS by reporting winter weather, flash flooding, etc., according to the established criteria. It must be stressed that we are looking for reliable and objective reports. When snowfall reports are inflated or hail sizes are exaggerated, for example, it can do more harm than good. While not a requirement, it is preferred that our SKYWARN™ volunteers would be available to receive a call from the NWS, in the event we feel that something suspicious is happening in their area. A questionnaire form handed out at the training sessions allows one to give additional information, such as hours of availability, access to rivers/streams, type of weather equipment owned (if applicable), etc.

Training sessions are held throughout eastern New York and western New England, typically in the spring and fall months. The latest training dates are listed below with the link for registration:

December 4, 2024	6-8pm Warren County Municipal Center - 1400 US-9, Lake George, NY 12845
December 11, 2024	1-3pm Online Virtual
December 18, 2024	6-8pm Schoharie County Emergency Services - 2783 State Route 7, Cobleskill, NY 12043
January 9, 2025	7-9pm Online Virtual

To register for these SKYWARN courses, please visit” <https://www.weather.gov/aly/skywarn#fragment-2b>

How to Get Started with QRP Radio for POTA Adventures

By Kate Lin

Are you looking for a new way to combine your love for the outdoors with your passion for Amateur Radio? Consider exploring the world of QRP Radio for your upcoming Parks On The Air adventure. This guide covers the basics of QRP Radio, the essential equipment, and tips for making the most of your POTA experience.

Picture yourself establishing a compact station with just a QRP Radio, an efficient antenna, and a few essential accessories in a stunning park setting. This setup allows you to connect with fellow enthusiasts while soaking in the beauty of nature. Merging QRP with POTA provides a distinctive experience for Amateur Radio enthusiasts. The excitement of making contacts with low power introduces an exhilarating challenge.



What is QRP Radio?

Definition and history: QRP Radio refers to low-power Amateur Radio operations. Operators typically use 5 watts or less. The term "QRP" originates from the Q-code used in radio communication, where "QRP" means "reduce power." Enthusiasts have embraced QRP Radio for decades. The challenge of making long-distance contacts with minimal power attracts many operators.

Popularity among Amateur Radio enthusiasts: Amateur Radio enthusiasts appreciate QRP Radio for its simplicity and challenge. Many operators enjoy the satisfaction of achieving successful communication with limited resources. The community of QRP Radio operators continues to grow. Enthusiasts often share experiences and tips through online forums and clubs.

Advantages of QRP Radio: Portability and ease of use. QRP Radio equipment is lightweight and compact, allowing operators to transport gear to remote locations easily. This portability makes QRP Radio ideal for outdoor activities like Parks On The Air (POTA). Because setting up a QRP Radio station requires minimal effort, operators can quickly begin making contacts.

Cost-effectiveness: QRP Radio offers a cost-effective entry into Amateur Radio. Equipment for QRP Radio is generally less expensive than high-power setups, so operators can experiment with different configurations without significant financial investment. The affordability of QRP Radio also attracts newcomers to the hobby.

Limitations of QRP Radio: Power and frequency constraints. QRP Radio operates with low power, which limits transmission range. Environmental factors can affect signal strength. Operators must consider these constraints when planning contacts. Frequency selection becomes crucial for successful communication. Operators need to choose bands that offer optimal propagation conditions.

Suitable modes for operation: QRP Radio operators often use specific modes to maximize efficiency. CW (Morse code) and digital modes like PSK31 are popular choices. These modes require less power for effective communication. Voice modes like SSB may present challenges due to higher power requirements. Operators should select modes based on their goals and conditions.

Types of QRP Radios: *Portable QRP Radios* are perfect for those who love the great outdoors. These radios are designed with mobility in mind. Lightweight and battery-operated, they fit snugly into a backpack. Operators can set up quickly in parks, mountains, or any scenic spot. *Base Station QRP Radios* cater to those who prefer operating from home. These radios offer more features and connectivity options. They connect to larger antennas and power supplies for enhanced performance. Operators enjoy the comfort of a home setup while still embracing the QRP philosophy. Base station radios provide a stable platform for experimenting with different configurations and techniques.

- continued on page 9 -

Getting Started with QRP for POTA...



Choosing the Right QRP Radio: Selecting the best QRP radio forms the foundation of your POTA adventure. Look for a portable unit that offers a compact design and supports multiple transmission modes. A lightweight radio ensures easy transport to various park locations. The power output of 5 watts allows for efficient communication. Consider the features that match your needs and budget.

Antennas and Accessories: An effective antenna plays a crucial role in your QRP setup. Portable antennas like the end-fed half-wave antenna work well for POTA. These antennas offer easy setup and excellent performance. An antenna launcher can simplify the process of raising your antenna. Accessories such as coaxial cables and connectors ensure smooth operation. A good set of headphones helps you hear weak signals. Pack spare batteries and a power bank for extended sessions. You should also consider acquiring a rugged case with interior foam padding that is designed to protect your radio and gear.

Setting Up Your QRP Station: Choosing the right site enhances your POTA experience. Parks with open spaces provide better signal propagation. Avoid areas with dense trees or tall buildings that block signals. Check park regulations before setting up your station. Some parks require permits for radio operations. A picnic table or a flat surface offers a convenient spot for your equipment. Ensure safety by staying clear of water bodies or steep edges.

Assembling and Testing Equipment: Assemble your equipment with care to ensure everything works smoothly. Start by connecting your QRP radio to the antenna. Use quality cables to avoid signal loss. Test the radio to confirm it transmits and receives signals properly. Adjust the antenna for optimal performance. A portable mast or pole can support the antenna securely. Keep a logbook to record contacts and any issues encountered during testing. Practice setting up and dismantling your station for efficiency.

Operating Tips for Successful POTA Adventures: Plan your POTA activation by first researching park locations. Look for parks with open spaces and minimal obstructions. Open areas help signals travel farther. Check online maps and satellite images. These tools show terrain features and potential obstacles. Consider accessibility and parking options. Easy access makes setup smoother. Some parks have designated areas for radio operations. Use forums and social media groups to gather insights from other operators. Experienced POTA operators can often share valuable tips and experiences.

Understanding Park Regulations: This is crucial for a successful POTA activation. Each park has its own set of rules. Visit the park's official website or contact park authorities. Ask about permits or fees required for radio operations. Some parks have restrictions on antenna heights or equipment placement. Respect the environment and follow Leave No Trace principles. Avoid disturbing wildlife or damaging vegetation. Compliance with regulations ensures a positive experience for everyone involved.

Operating Techniques: Efficient power management extends your operating time during POTA adventures. Choose a reliable power source, such as a lithium battery or solar panel. Monitor power levels regularly. Use a power meter to track consumption. Adjust power settings on your QRP radio to conserve energy. Lowering power output can save battery life. Turn off unnecessary features like back lighting or displays. Carry spare batteries or a portable charger for emergencies. Proper power management keeps your station running smoothly.

Logging Contacts and Reporting: Logging contacts and reporting are essential parts of POTA operations. Keep a detailed logbook of all contacts made. Record the date, time, frequency, and signal reports. Accurate logs help track progress and achievements. Use logging software or apps for convenience. Digital logs simplify data entry and retrieval. Submit activation reports to POTA organizations. Reports contribute to the community and validate your activation. Sharing your experiences inspires others to join the POTA adventure.

- continued on page 10 -

Getting Started with QRP for POTA...

Overcoming Challenges with QRP: First is dealing with low power limitations.

Boosting signal strength involves a few smart strategies. Use a high-gain antenna to improve transmission. Position the antenna as high as possible. Clear surroundings help signals travel further. Adjust the antenna for optimal performance. Experiment with different orientations. A good feed line minimizes signal loss. Choose quality cables for better results. Regularly check connections for any issues.

Handling Interference: Interference can disrupt communication. Identify sources of interference first. Nearby electronics often cause problems. Move away from potential sources. Adjust frequency to find a clearer channel. Use filters to reduce unwanted signals. Keep a log of interference patterns. This helps in planning future activations. Consistent monitoring ensures smoother operations.

Weather and Environmental Considerations: Outdoor conditions demand preparation. Check the weather forecast before heading out. Pack appropriate clothing for the conditions. Rain gear protects equipment from moisture. A sturdy tent or canopy offers shelter—secure equipment against wind and rain. Use waterproof bags for sensitive items. Always have a backup plan for unexpected weather changes.

Safety Tips for Remote Operations: Safety remains a top priority. Inform someone about your location and plans. Carry a fully charged phone for emergencies and a GPS to aid in navigation. First aid kits can handle minor injuries. Stay hydrated and bring enough food. Be aware of local wildlife and plants. Respect park rules and guidelines. Safe practices ensure an enjoyable POTA adventure.

Conclusion: Are you ready to embrace the thrill of QRP Radio in the great outdoors? You can enjoy your POTA adventures by understanding the fundamentals, selecting the right equipment, and preparing for various challenges. Remember, the journey is just as important as the destination. Whether you're a seasoned operator or a newcomer, there's always something new to learn and experience in QRP POTA. So grab your gear, head to your favorite park, and make those contacts. The QRP POTA community is waiting for you!

Where to Get POTA Information & Details

Parks on the Air® (POTA) started in early 2017 when the ARRL's National Parks on the Air special event ended. A group of volunteers wanted to continue the fun beyond the one-year event, and thus, POTA was born.

General information about the program is available online, so it's highly recommend checking out the information there (link below). You may also want to join the POTA Slack Channel or the POTA Facebook group, where you can easily interact with the POTA community online. POTA also maintains accounts on Twitter and Mastodon if you prefer to interact on those social media platforms.

Once you're ready to start, just remember that the golden rules of POTA are to have fun and keep it simple.

Getting started with POTA can happen via one of two paths — as an “activator” who heads out into the parks or as a “hunter” who is trying to contact someone in a park. The easiest way to participate in POTA is as a “hunter”.

For a complete understanding about POTA, visit its website at: <https://parksontheair.com/index.html>



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CALENDAR

December 12, 2024 - Annual Club Christmas Party. Brown's Brewery, River Street Troy. See story on page 1 for details.

January 8, 2025 - Regular Monthly Club Membership Meeting - Rensselaer Co. Search and Rescue Building

Get the Right Generator for Electronics

Having a portable generator is great for emergencies, keeping your home running and Amateur Radio station on the air when the power fails.

But not all generators are made the same -- and the wrong type can damage your sensitive electronics!

Traditional portable generators can produce "dirty" power that's prone to voltage spikes and surges. As a result, electronic devices -- including radios, TVs, computers and appliances -- can malfunction or even be damaged.

Inverter generators outperform conventional generators in a variety of ways: They're quieter than traditional portable generators. They're also more efficient, so they use less fuel. They deliver cleaner power, which can be important if you're plugging in sensitive electronic equipment or medical devices.

The downside is they are generally more expensive and offer less power than similarly priced traditional generators. But remember too, electronics are expensive to replace!

The East Greenbush Amateur Radio Association

Organized in 1998, by Bert Bruins, N2FPJ, (SK) and Chris Linck, N2NEH, the East Greenbush Amateur Radio Association, an ARRL affiliate, is committed to providing emergency services, educational programs, and operating resources to amateur radio operators and residents of the Capital Region of New York State. The club station is W2EGB. The club also has several VHF and UHF repeaters open to club members and the public.



GEAR FOR SALE

Equipment Cabinet - Dimensions are 14 1/2 deep 21 1/8 wide 19 3/4 high. Make offer.



Contact: Walt, N2WJR at:
n2wjr07@gmail.com

Free old electronic test equipment:

- Approved Electronic Instrument Corp. Model A-200 RF Signal Generator
- General Radio Corp. Model 1650-A Impedance Bridge
- Heathkit Model IO-103 Oscilloscope
- Hewlett Packard Model 3300-A Function Generator

Contact: John, WA2JAE, (518) 381-4847

- **Classic Hallicrafters SX-130 Receiver.** Freshly overhauled and aligned. Offers a 4 band, 7 tube superheterodyne receiver covering AM (broadcast band) and shortwave from 1.725 to 31.5 MHz. The frequency range covers foreign and domestic shortwave broadcasts, amateurs, aircraft, marine and standard AM broadcasts. The receiver also provides for the reception of code (CW), voice (AM) and upper and lower single sideband (SSB) signals. \$125.

Contact Bryan at: W2RBJ@Outlook.com

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free ad in Sidebands!**

Send details to: W2RBJ@Outlook.com